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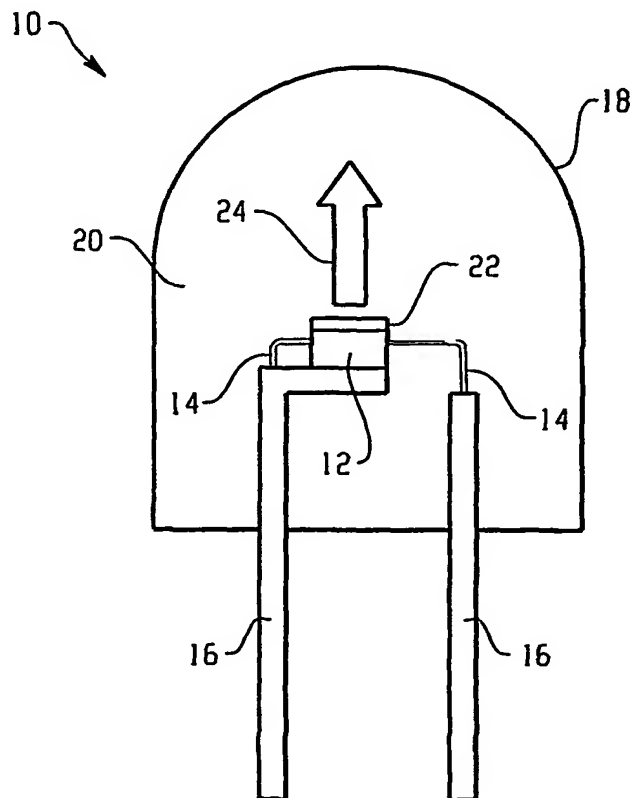
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[Continued on next page]

(54) Title: FULL SPECTRUM PHOSPHOR BLENDS FOR WHITE LIGHT GENERATION WITH LED CHIPS



(57) Abstract: A light emitting device including a phosphor blend including four or more phosphors emitting within a specific spectral range to optimize the color rendering index (CRI) for a given color coordinated temperature (CCT). The blend will include at least four phosphors selected from the following: a blue phosphor having an emission peak at 400-500 nm, a green phosphor having an emission peak at 500-575 nm, an orange phosphor having an emission peak from 575-615 nm, and a deep red phosphor having an emission peak at 615-680 nm. The preferred blends are used to make light sources with general CRI values ( $R_a$ ) greater than 95 at CCT's from about 2500 to 8000 K.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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